

Alignment of dengue virus polyproteins

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DEN4	850	NYVLWEGGHDLTVVAGDVKGVLTKGKRALTPPVSDLKYSWKTWGKAKIFT	899
DEN1-WP	851	NHILLENDMKFTVVVGDVSGILAQGGKMIRPQPMCHKYSWKSWSGKAKIIG	900
DEN2-NGC	851	NHILSENEVKLTIMTGDIKGIMQAGKRSLOPQPTLKYSWKTWGKAKMLS	900
DEN3-H87	849	NYILWENDIKLTVVVGDIITGVLEQGGKRTLTTPQPMELKYSWKTWGLAKIVT	898
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DEN4	900	PEARNTSTFLIDGPDITSECPNERRAWNSLEVEDYGFDMFTTNIWMKFREGS	949
DEN1-WP	901	ADVQNTTTFIIDGPNTPECPDNQRAWNIWEVEDYGFGITTTNIWLKLKRDY	950
DEN2-NGC	901	TESHNTQTFIDGPDITSECPNERRAWNSLEVEDYGFGVFTTNIWLKLREKQ	950
DEN3-H87	899	AETQNSSFIIDGPSTPECPASRAWNVWEVEDYGFGVFTTNIWLKLREVE	948
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DEN4	950	SEVCDHRLMSAAIKDQKAVHADMGYWIESSKNQWQIEKASLIEVKTCW	999
DEN1-WP	951	TQVCDHRLMSAAIKDQKAVHADMGYWIESEKNETWKLARASFIEVKTCIW	1000
DEN2-NGC	951	DVFCDSKLMSAAIKDNRAVHADMGYWIESALNDTWKIEKASFIEVKTSCHW	1000
DEN3-H87	949	TQLCDHRLMSAAIKDERAVHADMGYWIESQKNGSWKLEKASLIEVKTCW	998
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DEN4	1000	PKTHTLWSNGVLESQMLIPKSYAGPFSQHNYRQGYATQTVGPWHLGKLEI	1049
DEN1-WP	1001	PKSHTLWSNGVLESEMIIPKIYGGPISQHNYRPGYFTQTAGPWHLGKLEL	1050
DEN2-NGC	1001	PKSHTLWSNGVLESEMIIPKNFAGPVSQHNYRPGYHTQTAGPWHLGKLEM	1050
DEN3-H87	999	PKSHTLWSNGVLESDMIIPKSLAGPISQHNHRPGYHTQTAGPWHLGKLEL	1048
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DEN4	1050	DFGECPGTTVTIQEDCDHRGPSLRITTTASGKLVTQWCCRSCTMPPLRFLG	1099
DEN1-WP	1051	DFDLCEGTTVVVDEHCGNRGPSLRITTTVTGKTIHEWCCRSCTLPPLRFKG	1100
DEN2-NGC	1051	DFDFCEGTTVVVTEDCGNRGPSLRITTTASGKLITEWCCRSCTLPPLRYRG	1100
DEN3-H87	1049	DFNYCEGTTVVISENCGRGPSLRITTTVSGKLIHEWCCRSCTLPPLRYMG	1098
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DEN4	1100	EDGCWYGMEIRPLSEKEENMVKSQVTAGQGTSETFSMGLLCLTLFVEECL	1149
DEN1-WP	1101	EDGCWYGMEIRPVKEKEENLVKSMVSAGSGEVDSFSLGLLCISIMIEEVM	1150
DEN2-NGC	1101	EDGCWYGMEIRPLKEKEENLVNSLVTAGHGQIDNFSGLVGLMALFLEEML	1150
DEN3-H87	1099	EDGCWYGMEIRPINEKEENMVKSLSAGSGKVDNFTMGVLCALIFEEVM	1148
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DEN4	1150	RRRVTRKHMIILVVITLCAIILGGLTWMDLLRALIMLGDTMSGRIG-GQI	1198
DEN1-WP	1151	RSRWSRKMLMTGTAVFLLLTMTGQLTWNDLIRLCIMVGANASDKMGMTT	1200
DEN2-NGC	1151	RTRVGTKHAILLVAVSFVTLITGNMSFRDLGRVMVMVGATMTDDIGMGVT	1200
DEN3-H87	1149	RGKFGKKHMIAGVLTFTVLLLSGQITWRGMAHTLIMIGSNASDRMGMTT	1198
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DEN4	1199	HLAIMAVFKMSPGYVLGVFLRKLTSRETALMVIGMAMTTVLSIPHDLME	1248
DEN1-WP	1201	YLALMATFRMRPMFAVGLLFRRLTSREVLLLTVGLSLVASVELPNSLEEL	1250
DEN2-NGC	1201	YLALLAAFKVRPTFAAGLLLRKLTSKELMMTTIGIVLLSQSTIPETILEL	1250
DEN3-H87	1199	YLALIATFKIQPFALGFFLRKLTSRENLLLGVLGMAATLRLPEDIEQM	1248
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DEN4	1249	IDGISLGLILLKIVTQFDNTQVGTLALSITFIRSTMPLVMAWRTIMAVLF	1298
DEN1-WP	1251	GDGLAMGIMMLKLLTDFQSHQLWATLLSLTFVKTTFSLHYAWKTAMILS	1300
DEN2-NGC	1251	TDALALGMMVLKMKVRKMEKYQLAVTIMAILCVPNAVILQNAWKVSCITLA	1300
DEN3-H87	1249	ANGIALGLMALKLITQFETYQLWTALVSLTCSNTIFTTLTVAWRTATLILA	1298
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DEN4	1299	VVTLLIPLCRTSCLOKQASHWEITALILGAQALPVYLMTLMKGASRRSWPL	1348
DEN1-WP	1301	IVSLFPLCLSTTSQK-TTWLPVLLGLSGCKPLTMFLITENKIWGRKSWPL	1349
DEN2-NGC	1301	VVSVPFLTSSQQK-ADWIPLALTIKGLNPTAIFLTTLSTRTNKKRSWPL	1349
DEN3-H87	1299	GISLLPVCQSSSMRK-TDWLPM TVAAMGVPLPLFIFSLKDTLKRRSWPL	1347
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DEN4	1349	NEGIMAVGLVLSLLGSALLKNDVPLAGPMVAGGLLLAAYVMMSGSSADLSLE	1398
DEN1-WP	1350	NEGIMAVGIVSILLSSLLKNDVPLAGPLIAGGM LIACYVISGSSADLSLE	1399
DEN2-NGC	1350	NEAIMAVGMVSI LASSLLKNDIPMTGPLVAGGLLTVCYVLTGRSADLELE	1399
DEN3-H87	1348	NEGVMAVGLVSI LASSLLRNDVPMAGPLVAGGLLIACYVITGTSADLTVE	1397
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DEN4	1399	KAA NVQWDEMADITGSSPIIEVKQDEDGSFSIRDVEETNMITLLVKLALI	1448
DEN1-WP	1400	KAAEVSWE EEAHSGASHNILVEVQDDGT MKIKDEERD TLTILLKATLL	1449
DEN2-NGC	1400	RAADV KWEDQAEISGSSPIL SITISEDGSMS IKNEEEEQT LTILIRTGLL	1449
DEN3-H87	1398	KAADV TWEEEA EQTGVSHNLMITVDDDGMTRI KDDTENILT VLLKTALL	1447
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DEN4	1449	TVSGLYPLAIPVTMTLWYM WQVKTQRSGALWDVPS PAATKKAALSEGVYR	1498
DEN1-WP	1450	AISGVYPMSIPATLFVWFQWK KQRSGVLWDTPSPPEVERAVLD DGIYR	1499
DEN2-NGC	1450	VISGLFPVSIPI TAAAWYLWEVKKQRAGVLWDVPS PPPVGKAELEDGAYR	1499
DEN3-H87	1448	IVSGIFPY SI PATMLVWHTW QKQTQRSGVLWDVPS PPETQKAELEE GVYR	1497
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DEN4	1499	IMQRGLFGKTQVGVGIHMEGV FHTMWHVTRGSVIC HETGRLEPSWADVRN	1548
DEN1-WP	1500	ILQRGLLG RSQVGVGVFQEGVFHTMWHVTRG AVLMYQGKRLEPS WASVKK	1549
DEN2-NGC	1500	IKQKGILGYSQIGAGVYKEGT FHTMWHVTRGAVLM HKGKRIEPSWADV KK	1549
DEN3-H87	1498	IKQQGIFGKTQVGVGVQKEGV FHTMWHVTRGAVL THNGKRLEPNWASVKK	1547
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DEN4	1549	DMISYGGGWRLGD KDKEEDVQVLA IEPGKNPKHVQTK PGLFKTLTG EIG	1598
DEN1-WP	1550	DLISYGGGWRFQGSWNAGEEVQVI AVEPGKNPKNVQTAP GTFKTPEG EVG	1599
DEN2-NGC	1550	DLISYGGGWKLEGEWKEGEEVQV LALEPGKNPRAVQ TKPGLFKTNAGTIG	1599
DEN3-H87	1548	DLISYGGGWRLSAQWQKGEEVQVI AVEPGKNPKNFQTMP GIFIQT TTGEIG	1597
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DEN4	1599	AVTLDFKP GTS GSPIINRKGVIGLYGNGVVTKSGDYVSAITQA ERIGEP	1648
DEN1-WP	1600	AIALDFKPGTSGSPIVNREGKIVGL YGNGVVTTSGTYVSAIAQAKASQEG	1649
DEN2-NGC	1600	AVSLDFS PGTS GSPIIDKKGVVGLYGNGVVTRSGAYVSAIAQTEKSIED	1649
DEN3-H87	1598	AIALDFKPGTSGSPIINREGKV GLYGNGVVTKNGGYVSGIAQTNAEPDG	1647
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DEN4	1649	-DYEVD EDIFRKKRLTIMDLHPG AGKTKRILPSIVREAL KRRLRTLILAP	1697
DEN1-WP	1650	PLPEIEDEVFRKRNLTIMDLHPG SGKTRRYLPAIVREAIRRVRTLVLAP	1699
DEN2-NGC	1650	-NPEIEDDIFRKRKL TIMDLHPGAGKTKRYLPAIVREA IKRGLRTLILAP	1698
DEN3-H87	1648	PTPELEEEMFKKRNLTIMDLHPG SGKTRKYLPAIVREA IKRRLRTLILAP	1697
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DEN4	1698	TRVVAAEME EALRG LPIRYQTPAVKSEHTGREIVDLMCHATFTTRL LSST	1747
DEN1-WP	1700	TRVVASEMAEALKGMP IRYQTTAVKSEHTGKEIVDLMCHATFTMRLLSPV	1749
DEN2-NGC	1699	TRVVAAEME EALRG LPIRYQTPAIRAHTGREIVDLMCHATFTMRLLSPV	1748
DEN3-H87	1698	TRVVAAEME EAMKGLPIRYQTTATKSEHTGREIVDLMCHATFTMRLLSPV	1747
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DEN4	1748	RVPNYNLIVMDEAHFTDPSSVAARGYISTRVEMGEAAAI FMTATPPGATD	1797
DEN1-WP	1750	RVPNYNMIIMDEAHFTDPASIAARGYISTRVGMGEAAAI FMTATPPGSVE	1799
DEN2-NGC	1749	RVPNYNLIIMDEAHFTDPASIAARGYISTRVEMGEAAAGI FMTATPPGSRD	1798
DEN3-H87	1748	RVPNYNLIIMDEAHFTDPASIAARGYISTRVGMGEAAAI FMTATPPGTAD	1797
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DEN4	1798	PFPQSNSPIEDIEREIPERSWNTGFDWITDYQGKTWVWFVPSIKAGNDIAN	1847
DEN1-WP	1800	AFPQSNAPIQDEERDIPERSWNSGYDWITDFPGKTWVWFVPSIKSGNDIAN	1849
DEN2-NGC	1799	PFPQSNAPIMDEEREIPERSWSSGHEWVTD FKGKTWVWFVPSIKAGNDIAA	1848
DEN3-H87	1798	AFPQSNAPIQDEERDIPERSWNSGNEWITDFVGKTWVWFVPSIKAGNVIAN	1847
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DEN4	1848	CLRKSGKKVIQLSRKTFDTEYPKTKLTDWDFVVTDDISEMGANFRAGRVI	1897
DEN1-WP	1850	CLRKNGKR VVQLSRKTFDTEYQKTKNNDWDYVVTDDISEMGANFRAD RVI	1899
DEN2-NGC	1849	CLRKNGKKVIQLSRKTFDSEYVKTRTNDWDFVVTDDISEMGANFKAERVI	1898
DEN3-H87	1848	CLRKNGKKVIQLSRKTFDTEYQKTKLNDWDFVVTDDISEMGANFIAD RVI	1897
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DEN4	1898	DPRRCLKP VILPDGP ERVILAGPIPVTPASAAQRRGRIGRNPAQEDDQYV	1947
DEN1-WP	1900	DPRRCLKP VILKDGPERVILAGPMPVTVASAAQRRGRIGRNQNKEGDQYI	1949
DEN2-NGC	1899	DPRRCMKPVILTDGEERVILAGPMPVTHSSAAQRRGRIGRNPKNENDQYI	1948
DEN3-H87	1898	DPRRCLKP VILTDGP ERVILAGPMPVTVASAAQRRGRVGRNPQKENDQYI	1947
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DEN4	1948	FSGDPLKNDEDHAHWTEAKMLLDNIYTPEGIIP TLFGPEREK TQAIDGEF	1997
DEN1-WP	1950	YMGQPLNND EDAH WTEAKMLLDNINTPEGIIPALFEPEREKSA AIDGEY	1999
DEN2-NGC	1949	YMGEPLENDEDCAHWKEAKMLLDNINTPEGIIPSMFEPEREKVD AIDGEY	1998
DEN3-H87	1948	FMGQPLNKNDEDHAHWTEAKMLLDNINTPEGIIPALFEPEREKSA AIDGEY	1997
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DEN4	1998	RLRGEQRKTFVELMRRGDLPVWLSYKVASAGISYKDREWCFTGERNNQIL	2047
DEN1-WP	2000	RLRGEARKTFVELMRRGDLPVWLSYKVASEGFQYSRRWC F DGERNNQVL	2049
DEN2-NGC	1999	RLRGEARKTFVDLMRRGDLPVWLAYRVAAEGINYADRRWC F DGIKNNQIL	2048
DEN3-H87	1998	RLKGESRKTFVELMRRGDLPVWLAHKVASEGIKYTDRKWC F DGERNNQIL	2047
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DEN4	2048	EENMEVEIWTREGEKKKL RPRWLDARVYADPMALKDFKEFASGRKSITLD	2097
DEN1-WP	2050	EENMDVEIWTKEGERKKL RPRWLDARTYS DPLALREFKEFAAGRRSVSGD	2099
DEN2-NGC	2049	EENVEVEIWTKEGERKKL RPRWLDARIYS DPLTLKEFKEFAAGRKS LTLN	2098
DEN3-H87	2048	EENMDVEIWTKEGEKKL RPRWLDARTYS DPLALKEFKDFAAGRKSIALD	2097
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DEN4	2098	ILTEIASLPTYLSSRAKLALDNIVMLHTTTERGGRAYQH ALNELPESLETL	2147
DEN1-WP	2100	LILEIGKL PQHLTQRAQNALDNIVMLHNSEQGKAYRHAMEELPD TIETL	2149
DEN2-NGC	2099	LITEMGRLP TFM TQKARDALDNLA VLHTAEAGGRAYNHALSELPETLETL	2148
DEN3-H87	2098	LVTEIGRVPSHLAHRTRNALDNIVMLHTSEHGRAYRHAVEELPETMETL	2147
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DEN4	2148	MLVALLGAMTAGIFLFFMQGKGIGKLSMGLITIAVASGLLWVAEIQPQWI	2197
DEN1-WP	2150	MLLALIAVL TGGVT LFFLSGRGLGKTSIGLLCVIASSALLWMA SVEPHWI	2199
DEN2-NGC	2149	LLLTL LATVTGGIFLFLMSGRGIGKMTLGMCCIITASILLWYAQIQPHWI	2198
DEN3-H87	2148	LLLGLMILLTGAMLFLISGKGIGKTSIGLICVIASSGMLWMADVPLQWI	2197
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DEN4	2644	EEGRTLRLVKMVEPWLSKPEFCIKVLNPYMPTVIEELEKLQRKHGGNLV	2693
DEN1-WP	2650	EEGRTLRLVKMVEPWLRGN-QFCIKILNPYMPSVVETLEQMQRKHGGMLV	2698
DEN2-NGC	2648	EAGRTLRLVLNLVENWLNNTQFCIKVLNPYMPSVIEKMEALQRKYGGALV	2697
DEN3-H87	2647	EESRTIRVLKMVEPWLNKN-QFCIKVLNPYMPTVIEHLERLQRKHGGMLV	2695
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DEN4	2694	RCPLSRNSTHEMYWVSGASGNIVSSVNTTSKMLLNRFTRHRKPTYEKDV	2743
DEN1-WP	2699	RNPLSRNSTHEMYWVSCGTGNIVSAVNMTSRMLLNRFMAHRKPTYERDV	2748
DEN2-NGC	2698	RNPLSRNSTHEMYWVSNASGNIVSSVNMISRLINRFMRHKKATYEPDV	2747
DEN3-H87	2696	RNPLSRNSTHEMYWISNGTGNIVSSVNMVSRLLLNRFMTTHRRPTIEKDV	2745
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DEN4	2744	DLGAGTRSVSTETEKPDMTIIGRRLQRLQEEHKETWHYDQENPYRTWAYH	2793
DEN1-WP	2749	DLGAGTRHVAVEPEVANLDIIGQRIENIKNGHKSTWHYDEDNPYKTWAYH	2798
DEN2-NGC	2748	DLGSGTRNIGIESEIPNLDIIGKRIEKIKQEHETSWHYDQDHPYKTWAYH	2797
DEN3-H87	2746	DLGAGTRHVNAEPETPNMDVIGERIKRIKEHSSTWHYDDENPYKTWAYH	2795
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DEN4	2794	GSYEAPSTGSASSMVNGVVKLLTKPWDVIPMVTQLAMTDTTPFGQQRVFK	2843
DEN1-WP	2799	GSYEVKPSGSASSMVNGVVRLLTKPWDVIPMVTQIAMTDTTPFGQQRVFK	2848
DEN2-NGC	2798	GSYETKQTSASSMVNGVVRLLTKPWDVVPMTQMAMTDTTPFGQQRVFK	2847
DEN3-H87	2796	GSYEVKATGSASSMINGVVKLLTKPWDVVPMTQMAMTDTTPFGQQRVFK	2845
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DEN4	2844	EKVDTRTPQPKPGTRMVMTTTANWLWALLGKKKNPRLCTREEFISKVRSN	2893
DEN1-WP	2849	EKVDTRTPKAKRGTAQIMEVTARWLWGFLSRNKKPRICTREEFTRKVRN	2898
DEN2-NGC	2848	EKVDTRTQEPKEGTKKLMKITAEWLWKELGKKKTPRMCTREEFTRKVRN	2897
DEN3-H87	2846	EKVDTRTPRPMGTRKVMETAEWLWRTLGRNKRPRLCTREEFTKKVRTN	2895
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DEN4	2894	AAIGAVFQEEQGWSASEAVNDSRFWELVDKERALHQEGKCESCVYNMMG	2943
DEN1-WP	2899	AAIGAVFDENQWNSAKEAVEDERFWDLVHRERELHKQKGKATCVYNMMG	2948
DEN2-NGC	2898	AALGAIFTDENKWSAREAVEDSRFWELVDKERNLHLEGKCETCVYNMMG	2947
DEN3-H87	2896	AAMGAVFTEENQWDSARAAVEDDEFWKLVDRELERLHKLKCGSCSVYNMMG	2945
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DEN4	2944	KREKKLGEFGRAGKSRAIYMWLWLGARFLEFEALGFLNEDHWFGRENSWSG	2993
DEN1-WP	2949	KREKKLGEFGKAKGSRAIYMWLWLGARFLEFEALGFMNEDHWFSRENSLSG	2998
DEN2-NGC	2948	KREKKLGEFGKAKGSRAIYMWLWLGARFLEFEALGFLNEDHWFSRENSLSG	2997
DEN3-H87	2946	KREKKLGEFGKAKGSRAIYMWLWLGARYLEFEALGFLNEDHWFSRENSYSG	2995
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DEN4	2994	VEGEGLHRLGYILEEIDKKDGLMYADDTAGWDTRITEDDLQNEELITEQ	3043
DEN1-WP	2999	VEGEGLHKLGYILRDISKIPGGNMYADDTAGWDTRITEDDLQNEAKITDI	3048
DEN2-NGC	2998	VEGEGLHKLGYILRDVSKKEGGAMYADDTAGWDTRITLEDLKNEEMVTNH	3047
DEN3-H87	2996	VEGEGLHKLGYILRDISKIPGGAMYADDTAGWDTRITEDDLHNEEKITQQ	3045
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DEN4	3044	MAPHHKILAKAIFKLTYQNKVVVLRPTPRGAVMDIISRKDQRGSGQVGT	3093
DEN1-WP	3049	MEPEHALLATSIFKLTYQNKVVRVQRPAKNGTVMDVISRRDQRGSGQVGT	3098
DEN2-NGC	3048	MEGEHKKLAEAIKFLTYQNKVVRVQRPTPRGTVMDIISRDRQRGSGQVGT	3097
DEN3-H87	3046	MDPEHRQLANAIFKLTYQNKVVVQRPTPKGTVMIDIISRKDQRGSGQVGT	3095
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DEN4	3094	YGLNTFTNMEVQLIRQMEAEGVITQDDMQNPKGLKERVEKWLKECGVDRL	3143
DEN1-WP	3099	YGLNTFTNMEAQLIRQMESEGIFSPSELETPN-LAERVLDWLKKHGTERL	3147
DEN2-NGC	3098	YGLNTFTNMEAQLIRQMEGEGVFKSIQHLLTVT-EEIAVQNWLARVGRERL	3146
DEN3-H87	3096	YGLNTFTNMEAQLIRQMEGEGVLSKADLENPHLEKKITQWLETKGVERL	3145
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DEN4	3144	KRMAISGDDCVVKPLDERFGTSLFLNDMGKVRKDIPQWEPSKGWKNWQE	3193
DEN1-WP	3148	KRMAISGDDCVVKPIDDRFATALNDMGKVRKDIPQWEPSKGWNDWQQ	3197
DEN2-NGC	3147	SRMAISGDDCVVKPLDDRFSALTALNDMGKVRKDIQQWEPSRGWNDWTQ	3196
DEN3-H87	3146	KRMAISGDDCVVKPIDDRFANALLALNDMGKVRKDIPQWQPSKGWHDWQQ	3195
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DEN4	3194	VPFCSHHFHKIFMKDGRSLVPCRNQDELIGRARISQGAGWSLRETACLG	3243
DEN1-WP	3198	VPFCSHHFHQLIMKDGREIVVPCRNQDELVGRARVSQGAGWSLRETACLG	3247
DEN2-NGC	3197	VPFCSHHFHELIMKDGRVLVPCRNQDELIGRARISQGAGWSLRETACLG	3246
DEN3-H87	3196	VPFCSHHFHELIMKDGRKLVPCRPQDELIGRARISQGAGWSLRETACLG	3245
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DEN4	3244	KAYAQMWSLMYFHRRDLRLASMAICSAVPTEWFPTSRTTWSIHAAHQWMT	3293
DEN1-WP	3248	KSYAQMWSLMYFHRRDLRLAANAICSAVPVDWVPTSRTTWSIHAAHQWMT	3297
DEN2-NGC	3247	KSYAQMWSLMYFHRRDLRLAANAICSAVPVSHWVPTSRTTWSIHAKHEWMT	3296
DEN3-H87	3246	KAYAQMWTLMYFHRRDLRLASNAICSAVPVHWVPTSRTTWSIHAAHQWMT	3295
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DEN4	3294	TEDMLKVWNRVWIEDNPNMMDKTPVHSWEDIPYLGKREDLWCGSLIGLSS	3343
DEN1-WP	3298	TEDMLSVWNRVWIEENPWMEDKTHVSSWEDVPYLGKREDRWCGSLIGLTA	3347
DEN2-NGC	3297	TEDMLTVWNRVWIIQENPWMEDKTPVESWEEIPYLGKREDQWCGSLIGLTS	3346
DEN3-H87	3296	TEDMLTVWNRVWIEDNPNMEDKTPVTTWEDVPYLGKREDQWCGSLIGLTS	3345
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DEN4	3344	RATWAKNIHTAITQVRNLIGKEEYVDYMPVMKRYSAPESESEGLV	3387
DEN1-WP	3348	RATWATNIQVAINQVRRLIGNENYLDGMTSMKRFRKNESDPEGALW	3392
DEN2-NGC	3347	RATWAKNIQTAINQVRSLIGNEEYTDYMPMSMKRFRREEEEEAGVLW	3391
DEN3-H87	3346	RATWAQNILTAIQVRSLIGNEEFLDYMPMSMKRFRKEEESEGAIW	3390
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* Residue identity
. Residue similarity

[0238] While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention. All figures, tables, and appendices, as well as patents, applications, and publications, referred to above, are hereby incorporated by reference.